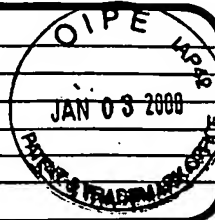


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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 3, 2008 <i>(use as many sheets as necessary)</i> | | Application Number | 10/577,702 |
| | | Filing Date | 11/2/2004 |
| | | First Named Inventor | Masao YANAGAWA |
| | | Art Unit | 1713 |
| | | Examiner Name | Lee, Rip A. |
| Attorney Docket Number | 023174-0161 | | |
| Sheet | 1 | of | 1 |



| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|----------|---|--------------------------------|--|--|
| Examiner Initials* | Cite No. | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|--------------------------------|---|--|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document Country Code ⁴ Number ³ Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Documents | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | B1 | FRT 542 040 | 10/11/1968 | Phillips Petroleum Company | | |
| | B2 | JP 2002-220410 | 08/09/2002 | Ube Industries | | Abs |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|--|----------------|
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| | B3 | CHIRIK P.J.-et al., "Preparation of Ansa-Niobocene and Ansa-Tantalocene Olefin Hydride Complexes as Transition State Analogues in Metallocene-Catalyzed Olefin Polymerization", Organometallics, American Chemical Society, January 6, 2003, pgs. 172-187. | |
| | B4 | SCHWEIGER, Scott W. et al., "Studies of the alkylation of niobium and tantalum halides containing 2, 6-diaryloxyphenoxide ancillary ligation", Journal of the Chemical Society, Dalton Transactions, 2001, 2020-2031, pgs. 2021-2028. | |
| | B5 | WEINERT, Charles S., "Isolation and Chemistry of Tantalum(V) Compounds Containing Two Resolved 3, 9-Disubstituted-1,1'-bi-2,2-Naphthoxide Ligands" ORGANOMETALLICS, 2002, American Chemical Society, pgs. 484-490. | |
| | B6 | VANBAATEEN, A. et al., "Allyl complexes of dicyclopentadienylniobium(III) and -tantalum(III)", Journal of Organometallic Chemistry 74, 1974, pgs. 245-253. | |
| | B7 | GRAY, Steven D.-et al., "Carbon-Nitrogen Bond Cleavage in an eta2(N,C)-Pyridine Complex Induced by Intramolecular Metal-to-Ligand Alkyl Migration: Models for Hydrodenitrogenation Catalysis", Journal of the American Chemical Society, 1995, pgs. 10678-10693. | |

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|--------------------|-----------------|------------|
| Examiner Signature | Date Considered | 11/18/2008 |
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